

Figure 1

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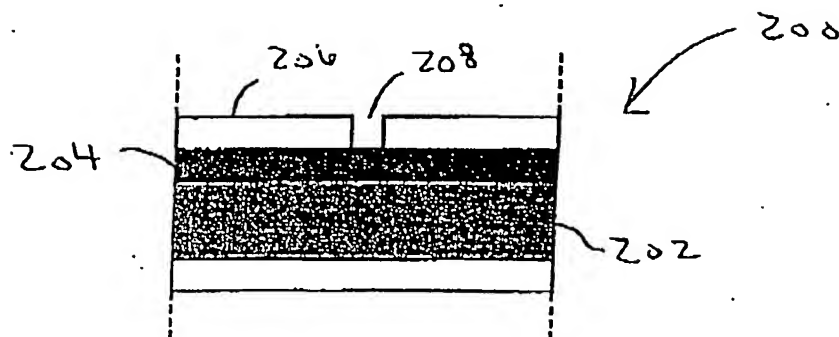


Figure 2

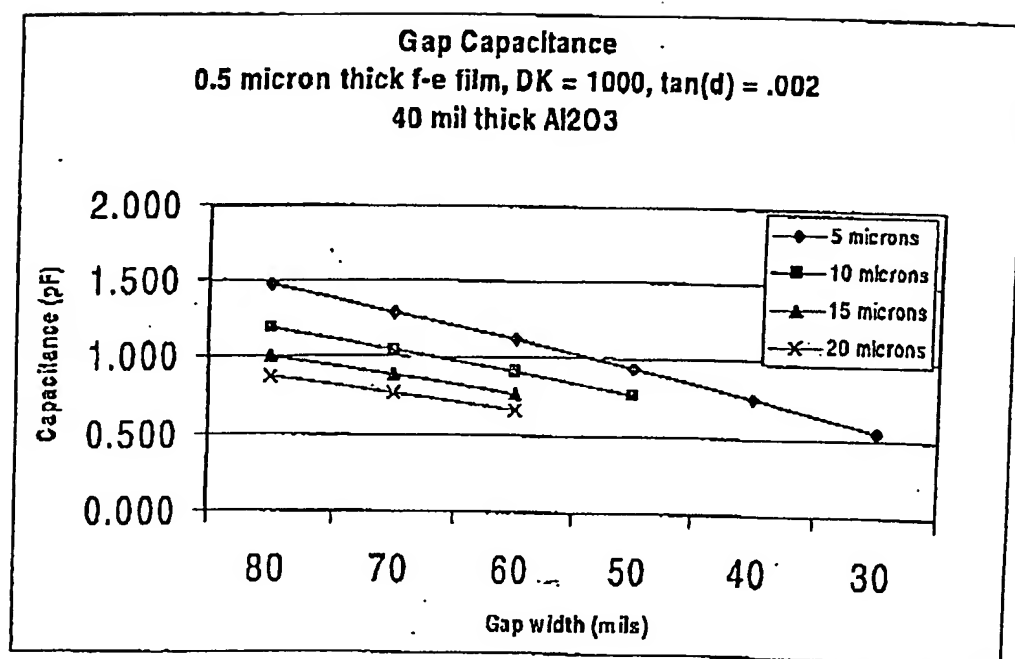


Figure 3

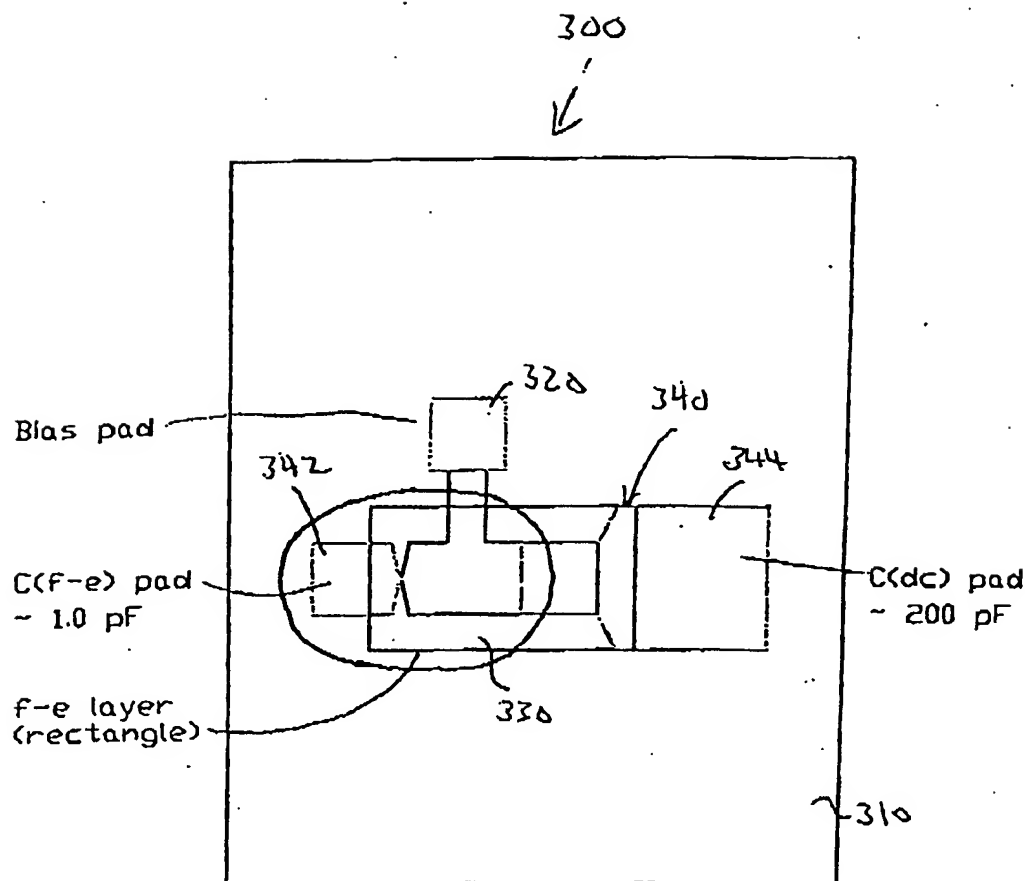


Figure 4

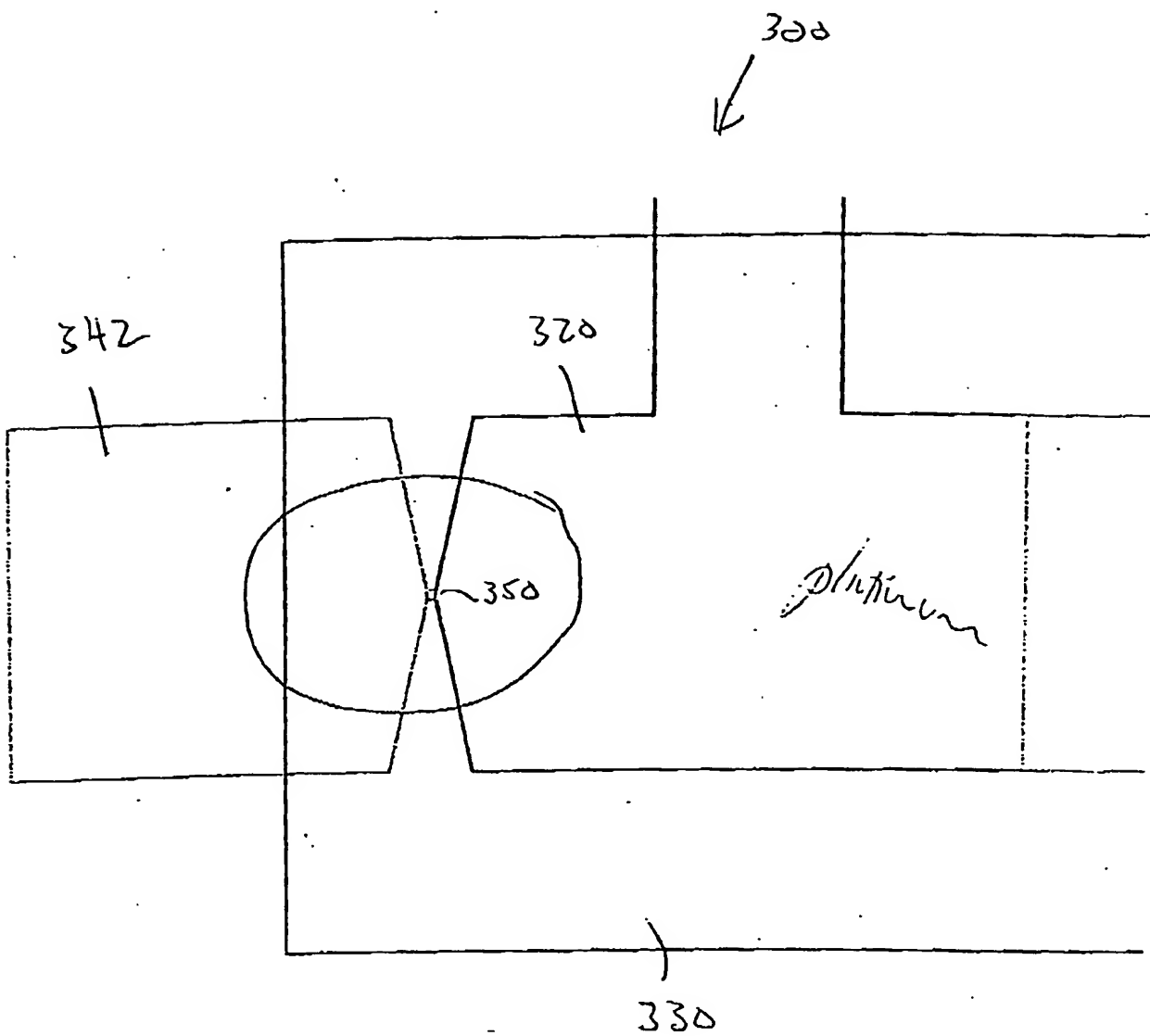


Figure 5

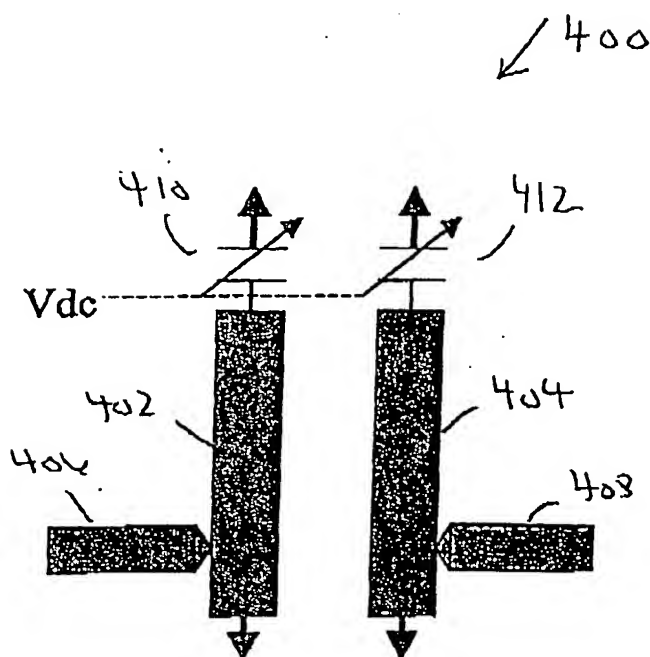


Figure 6

KWC	NRL	NRL capacit or	NRL Q	KWC cap	KWC Q	KWC Q	f ₀	Tuning	Comments
Sample #	Sample #	(pF)	(0 VDC)	(pF)	(0 VDC)	(40 VDC)	(MHz)	(MHz/V)	
01	NRL #1-A	1.012	10.1	0.99	190	-	1622	~ 1.0	
02	NRL #1-A	1.012	10.1	0.96	183	-	1605	~ 1.0	
01	NRL #3-A	1.004	10.1	0.90	101	123	1610	~ 1.0	
02	NRL #2-A	0.76	10.2	0.75	200	-	1900	~ 0.5	
06	NRL #2-A	0.76	10.2	0.72	205	-		~ 0.5	damaged, high V
05	NRL #2-A	0.76	10.2	0.71	196	200	1912	~ 0.5	

Figure 7

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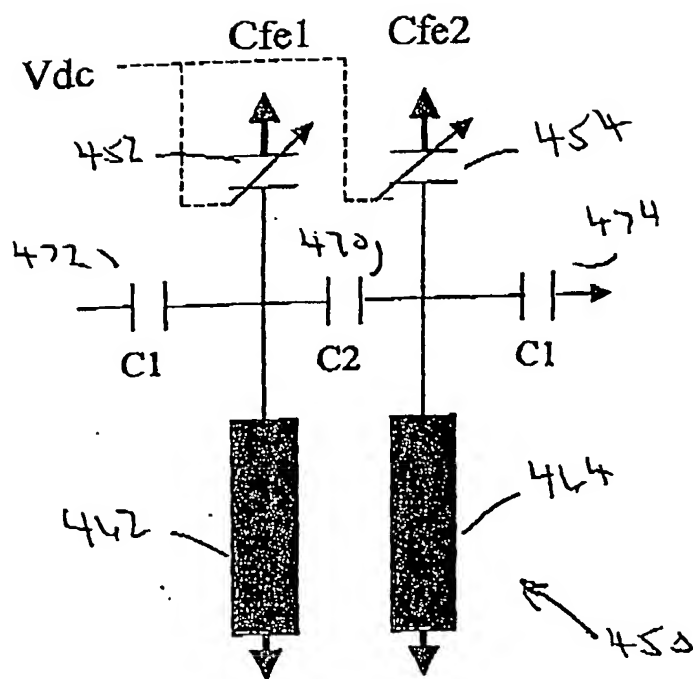


Figure 8

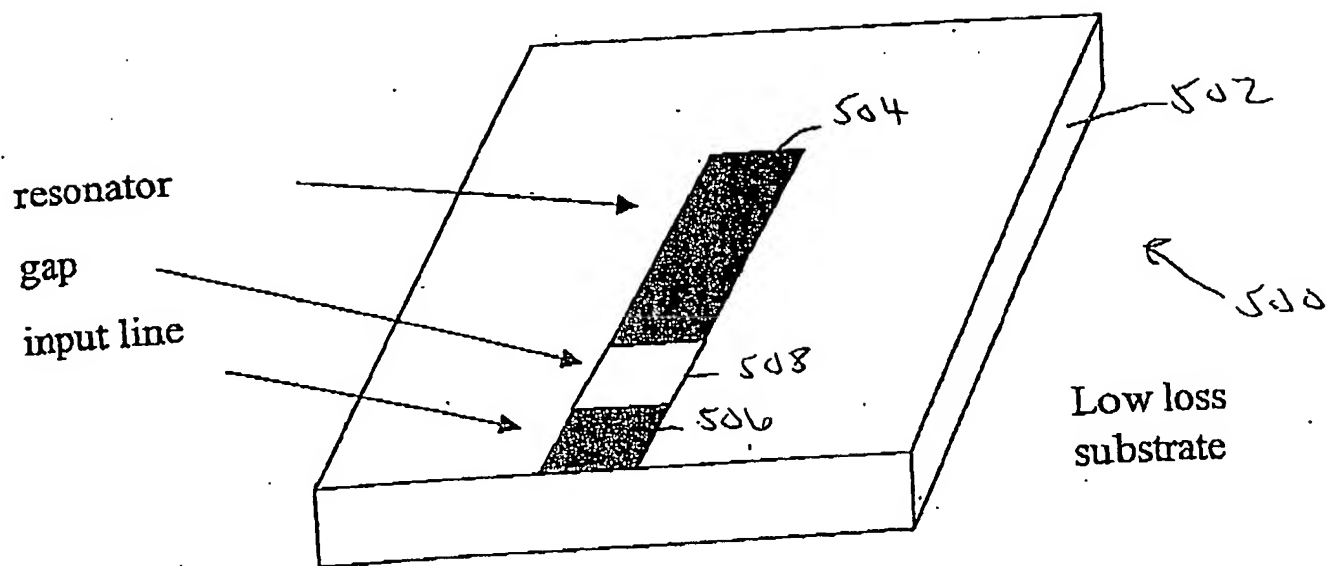
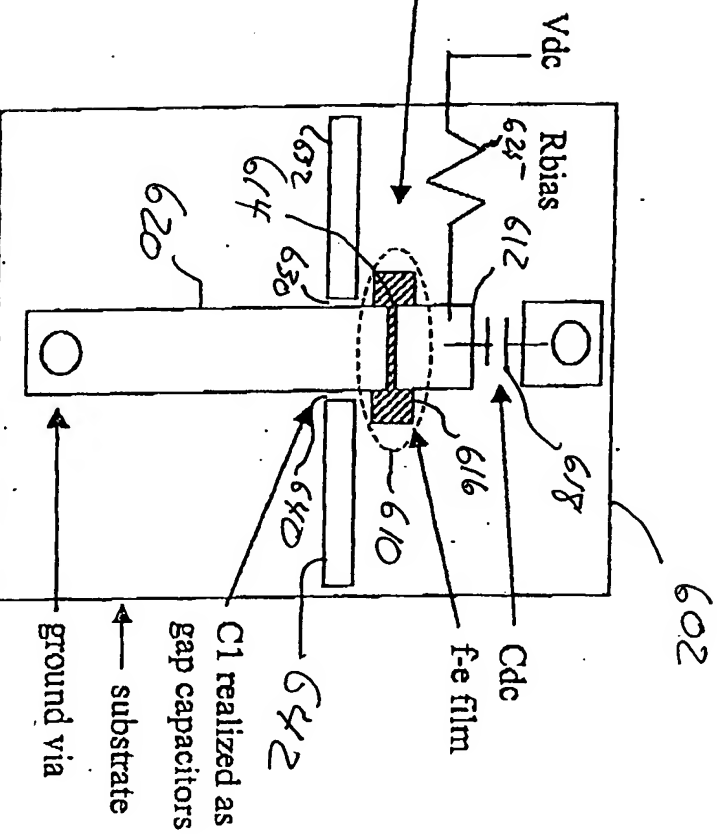
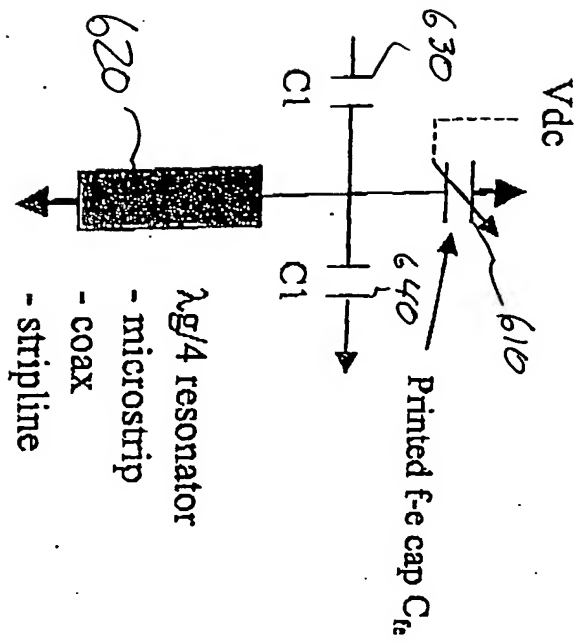


Figure 9



Planar realization of single resonator BPF

Figure 10A

Figure 10B

Can be realized without vias
using ground planes to build in
test fixture